



# **Implementing Marine Corps INRMPs**

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# Implementing Marine Corps INRMPs

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- All INRMPs complete except Goldwater Range INRMP/EIS
- All INRMP class 0 and 1 projects funded in FY03, \$18M
- Handbook for Preparing, Revising, and Implementing INRMPs updated May 2004



# INRMP Efficacy Metrics

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- Initiated development of metrics Spring 04
  - URS Corporation contract support
- Aug 04 - Sikes Act Tripartite mtg report - recommends development of quantitative metrics
- Metrics model to Sikes Act Working Group and OSD Spring 05 for review, modification, and hopefully application to meet needs/reporting rqmts of all DoD services



# INRMP Efficacy Metrics

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- Considerations:
  - What metrics will indicate successful species conservation and land protection to sustain military training exercises?
  - Metrics need to communicate INRMP program effectiveness to both internal and external stakeholders (and withstand potential lawsuits)



# INRMP Efficacy Metrics

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- Military Training Support
  - Does INRMP provide and promote continued use of land, water, and air space for training?
  - Does INRMP have a mechanism to prevent a net loss of landscapes necessary for training?
  - Are procedures in place to modify management schemes to meet changes in training requirements?



# INRMP Efficacy Metrics

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- Sikes Act Compliance
  - Does the INRMP provide a benefit to listed species to meet FWS criteria to exclude the base from critical habitat designation?
  - Are “must fund” projects completed and are they scientifically credible, effective, *needed*?
  - Is the INRMP conserving or recovering listed species and preventing species at risk from being listed?



# INRMP Efficacy Metrics

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- Metrics should assess how well INRMP team works together:
  - Base commanders, installation staff, trainers/operators, regulators, and NGOs
- Must be easily understood by all:
  - Internal stakeholders (operators, range managers, etc.)
  - External stakeholders (regulators, NGOs, etc.)





# INRMP Efficacy Metrics

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- Metrics will be quantitative and qualitative to indicate how well projects support training requirements and provide benefit to species on base and/or regionally



# INRMP Efficacy Metrics

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- Assess natural resource mgmt at MCAS Cherry Point NC and 29 Palms CA
- DoD/USMC INRMP guidance goals and ten Sikes Act requirements will be scored and totaled using weighting values to assess INRMP implementation effectiveness.



# INRMP Efficacy Metrics

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- DoD/USMC guidance goals:
  - Meets mission goals
  - Supports Federal/State & Regional goals
  - Satisfies stakeholders & Regional Consrv goals
  - Provides benefit to species, section 318
  - Results in decision “not to list” species

===== INRMP Score



# INRMP Efficacy Metrics

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- Sikes Act Requirements:
  - No net loss of training lands
  - Fish, wildlife, land, & forest mgmt & recreation
  - Fish & wildlife habitat enhancement/modif.
  - Wetland protection, enhancement/restoration
  - Integration of & consistency among activities



# INRMP Efficacy Metrics

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- Establishment of goals & objectives w/schedule
- Sustainable public use, when consistent w/training
- Enforcement of nat res laws & regs
- Other activities as deemed appropriate by Secretary of military Dept.

===== Sikes Act Score



# INRMP Efficacy Metrics

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- Budget/Schedule:
    - Project is in the POM
    - In current year
    - Funded
- ==== Budget/schedule score

[illegible]

Weighting		Totals	
Values			
Weighted Score <sup>(4)</sup>	Potential Max <sup>(5)</sup>	Total Score <sup>(6)</sup>	Potential Max <sup>(7)</sup>
5.4	6	59.4	66
4.2	6	50.4	78
4.5	5	31.5	35
4.5	5	54	60
4.5	5	27	35
5.6	6	44.8	48
5	5	30	30
3.8	5	45.6	65
2.7	3	18.9	24
2.7	3	21.6	24
2.7	3	32.4	36
		416	501
		Ratio=	0.83
		Percentile=	83%



# Natural Resource Mgmt VS. Training Capability

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- INRMP implementation metrics collected are to correct deficiencies identified in ability to provide access to training lands, waters, air space
- USMC developed Training and Range Encroachment Information System (TREIS)
  - a database tool



# TREIS Metrics

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- Purpose:
  - Assess and quantify impacts to the Base's mission/training capability, as result of various categories of encroachment.





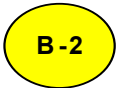
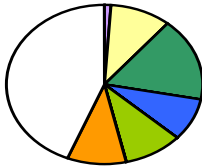
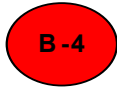
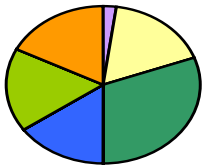

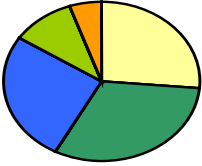
# TREIS Metrics

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- Provides an encroachment quantification toolset and database, based on an operations orientated and field-tested methodology
- Establishes a quantitative measure of encroachment impacts as a function of:
  - Training tasks, training areas, and encroachment factors

# Mortar Man (MOS 0341)

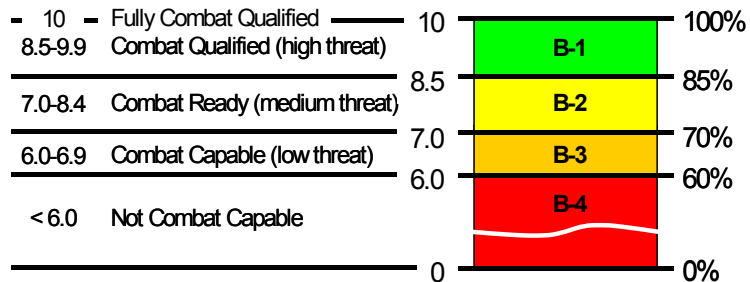
Training Tasks: In-Scenario

	# of Tasks	Percentage Completion to Standard	Base Training Readiness Level	Inhibited Activities	Encroachment Factors
All Tasks	53	75%	 Combat Ready (medium threat)	Digging Airspace Use	
Field Tasks	26	49%	 Not Combat Capable		
Non-Firing Tasks	13	69%	 Combat Capable (low threat)		









## USMC Readiness Categories








10	Fully Combat Qualified
8.5-9.9	Combat Qualified (high threat)
7.0-8.4	Combat Ready (medium threat)
6.0-6.9	Combat Capable (low threat)
< 6.0	Not Combat Capable

## Base Training Readiness Percentage Thresholds for each B-Level



## Encroachment Factors Key

	Air Quality
	Cultural Resources
	Ecosystem/Biodiversity
	Endangered Species
	Maritime
	Water Use
	Wetlands
	Airborne Noise

	Airspace Restrictions
	Frequency Encroachment
	Land Use
	Urban Growth
	UXO and Constituents
	Public Safety
	Not Applicable (Admin. Tasks)



# TREIS Metrics

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- A powerful tool for collecting, analyzing, and quantifying the impacts of encroachment on training and readiness.
- Will allow base to continually assess its capability to support training at the training task level



# TREIS Metrics

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- Training capability assessment tool to be applied Marine Corps-wide
- Compare INRMP effectiveness measure to training capability TREIS measure to direct long term resource mgmt and community planning to offset potential encroachment



# Quantification Benefits

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